

Begin

BEGIN

#664

VORONOVA, P.N.

Dynamics of the basic sanitary and demographic indices for Perm Province. Zdrav.Ros.Feder. 6 no.9:10-13 S '62. (MIRA 15:10)

1. Iz kafedry organizatsii zdravookhraneniya II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova.
(PERM PROVINCE—DEMOGRAPHY)

VORONOVA, R.

Breeding machine. Okhr.truda i sots.strakh. 4 no.12:27 D '61.
(MIRA 14:11)

1. Otvetstvennyy sekretar' mnogotirazhnoy gazety "Rybnik".
(Restaurants, lunchrooms, etc.--Equipment)

VOLODOVA, N.A.

VOLODOVA, N.A.

Differentiation of space signals by children with musculoskeletal
lesions. Uch.zap.Len.un. no.185:92-100 '54. (MLRA 8:10)
(Movement disorders) (Space perception)

KHRUSHCHEV, G.G., kand. tekhn. nauk; Prinimali uchastiy: YADROVA, G.I.,
inzh.; STEPANOV, I.T., konstruktor; AFANAS'YEV, V.K., inzh.;
DODONOVA, V.I., laborant; VORONOVA, R.G., laborant

Method of combined spinning, slubbing, and twisting in woolen
manufacture. Nauch.-issl. trudy TSNII Shersti no.17:29-38 '62.
(MIRA 17:12)

MUROMTSEV, A.M.; ARKHIPOVA, Ye.G.; MAKEROV, Yu.V.; KHARITONOV,
D.G.; DOBROVOL'SKAYA, L.N.; POTAYCHUK, M.S.; VORONOVA,
S.P.; BELOV, V.P.; RZHEPLINSKIY, G.V., nauchn. red.;
ROSHCHINA, V.V., red.; ZARKH, I.M., tekhn. red.

[Basic characteristics of the hydrology of the Atlantic
Ocean] Osnovnye cherty gidrologii Atlanticheskogo Okeana.
Pod red. A.M.Muromtseva. Moskva. Gidrometeoizdat, 1963.
835 p. ____ [Atlas of vertical cross sections and maps of
temperature, salinity, density and oxygen composition] Pri-
lozhenie no.2. Atlas vertikal'nykh razrezov i kart tempera-
tury, solenosti, plotnosti i sodержaniia kisloroda. 182 p.
(MIRA 17:3)

1. Moscow. Gosudarstvennyy okeanograficheskii institut.

VORONOVA, S. A.

24455

VORONOVA, S. A. Otdalennyye posledstviya zakrytykh trava cherepa. (Kliniko-stat. analiz. postkontuzionnykh sostoyaniy). Trudy Glav. voyen. Gospitalya Vooruzh. Sil SSSR im. Akad. Burdenko. VIP. 6. M., 1949, S. 342-52.
Bibliogr: 5 nazv.

SO: Letopis, No. 32, 1949.

ACCESSION NR: AP4040669

B/0075/04/019/006/0705/0708

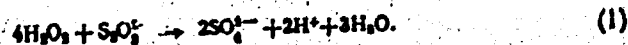
AUTHOR: Yatsimirskiy, K. B.; Morozova, R. P.; Voronova, T. A.; Gershkovich, R. M.

TITLE: Quantitative determination of tantalum by its catalytic action on the oxidation of thiosulfate by hydrogen peroxide.

SOURCE: Zhurnal analiticheskoy khimii, v. 19, no. 6, 1964, 705-708

TOPIC TAGS: tantalum, quantitative determination, thiosulfate oxidation, catalysed thiosulfate oxidation, kinetic analysis, phototurbidimetric determination, catalysed oxidation

ABSTRACT: A new kinetic method is suggested for the quantitative determination of Ta (V), based on the catalysis of the reaction between thiosulfate and hydrogen peroxide:



Since the rate of sulfate formation is proportional to the catalyst concentration, and since the optical density of $BaSO_4$ is directly proportional to the sulfate ion

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ACCESSION NR: AP4040669

concentration, phototurbidimetric determination in the changes of the optical density of BaSO_4 will indicate the rate of the indicated reaction. A linear relationship was found between catalyst concentration (i.e., sulfate formation) and length of the induction period (time from mixing of the reagents to moment optical density = 0.05). The relationships between induction period and peroxide and thio-sulfate concentrations were also established (figs. 1, 2). It is suggested that concentrations of these corresponding to the middle portions of these curves be used. W, Ti, V and Th ions, which themselves catalyze the above reaction, and fluoride ions which form strong complexes with the catalyst affect the determination. Orig. art. has: 2 tables, 3 figures and 2 equations.

ASSOCIATION: Ivancvskiy/khimico-tekhnologicheskii institut (Ivanov Chemical Technological Institute)

SUBMITTED: 08Jul63

ENCL: 01

SUB CODE: IC

NO REF SOV: 005

OTHER: 000

Card

2/3

VORONOVA, T.G., kand. sel'skokhoz. nauk

Growth rhythm of fruit crop roots in relation to the development
of their aerial parts. Agrobiologiya no.2:291-293 Mr-Apr '65.
(MIRA 18:11)

1. Sakhalinskaya oblast', Anivskiy rayon, poselok Pyatirech'ye.

VORONOVA, T.G.

Effect of pollinizer variety on the setting and size of apples
in Sakhalin Province. Agrobiologiya no.2:234-237 Mr-Apr '62.
(MIRA 15:4)

1. Kholmskoye opytnoye pole plodovoyagodnykh kul'tur, Sakhalinskaya
oblast'.

(Sakhalin--Apple breeding)

VORONOVA, T.G., kand.sel'skokhoz.nauk

Goumi. Priroda 50 no.11:107-108 N '61.

(MIRA 14:10)

1. Kholmskoye opytnoye pole plodovo-yagodnykh kul'tur,
Sakhalinskaya obl.

(Sakhalin—Goumi)

VORONOVA, V. F.

VORONOVA, V. F. - "Qualitative Investigation of the Position of Integral Curves of the Equation

$$y' = \frac{A_3(x,y) + f(x,y)}{B_3(x,y) + q(x,y)}$$

in the Vicinity of a Particular Point." Min Education RSFSR. Moscow Oblast Pedagogical Inst. Moscow, 1955. (Dissertation for the Degree of Candidate of Physicomathematical Sciences)

So; Knizhnaya Letopis', No 3, 1956

VORONOVA, Vera Petrovna; MOZHAROV, Nikolay Alekseyevich; DAYEV,
A.K., dots., red.

[Thermal analysis of a boiler unit; manual for a course
project] Teplovoi raschet kotloagregata; posobie po kur-
sovomu proektirovaniu. Moskva, energeticheskii in-t, 1961.
87 p. (MIRA 17:3)

VORONOVA, V. P.

VORONOVA, V. P. -- "Investigation of the Method for Obtaining and the Analysis of Concentrated Samples of Condensate of Steam." Sub 30 Dec 52, Moscow Order of Lenin Power Engineering Inst imeni V. M. Molotov. (Dissertation for the Degree of Candidate in Technical Sciences.)

SO: VECHERNAYA MOSKVA, January-December 1952

VOLONOVA, V.S.

Natural regeneration under the canopy of spruce woods. Trudy
Kar.fil. AN SSSR no.16:30-37 '59. (MIRA 13:4)
(Spruce) (Reforestation)

VORONOVA, V.S.

Appearance of conifer shoots on cut-over areas with different
types of vegetation, Izv.Kar.i Kol.fil.AN SSSR no. 3:97-102
'58. (MIRA 12:9)

1. Institut lesa Karel'skogo filiala AN SSSR.
(Coniferae)

YAKOVLEV, F.S.; VORONOVA, V.S.; VILIKAYNEN, M.I., kand. biol. nauk, nacunyy
red.; PANKRASHOV, A.P., red.; POD"EL'SKAYA, K.M., tekhn. red.

[Forest types in Karelia and their natural zoning] Tipy lesov
Karelii i ikh prirodnoe raionirovanie. Petrozavodsk, Gos. izd-
vo Karel'skoi ASSR, 1959. 189 p. (MIRA 15:4)
(Karelia--Forests and forestry)

VORONOVA, V. S.

Dissertation defended in the Botanical Institute imeni V. L. Komarov
for the academic degree of Candidate of Biological Sciences:

"Types of Spruce Forest and Felling of Karelia."

Vestnik Akad Nauk No. 4, 1963, pp. 119-145

VORONOVA, V.S.; LISENKOV, A.F.

Work of the Karelian Branch of the Academy of Sciences of the
U.S.S.R. on forestry and the lumber industry. Izv. Kar. i Kol'
fil. AN SSSR no. 1:20-25 '57. (MIRA 11:7)

1. Institut lesa Karel'skogo filiala AN SSSR.
(Karelia--Forestry research)

VIDRONOVA, V.S.

Effect of plant succession on natural regeneration in clearcuttings.
Trudy Kar. fil. AN SSSR no.7:110-126 '57. (MLA 10:9)
(Karelia--Forest ecology) (Reforestation)

IONIN, Aleksandr Aleksandrovich, kand. tekhn. nauk; NOVIKOVA, M.M.,
ved. red.; VORONOVA, V.V., tekhn. red.

[Fundamentals for the design of jet gas burners] Osnovy ras-
cheta ezhektsionnykh gazovykh gorelok. Moskva, Gostoptekh-
izdat, 1963. 151 p. (MIRA 16:10)
(Gas burners)

1ST AND 2ND GROUPS		PROCEDURES AND PROCEDURAL INDEX	
<p>15</p> <p>The role of the gastrointestinal tract in regulating the acido-alkaline equilibrium of the organism. V. K. Vukobratovic and A. V. Drubintseva. <i>Neuro-Humoral'nye Regulyatsii</i> (Neurohumoral Regulation of the Digestive Tract) 1935, II, 129-34 (in English 134-5).—Gastric juice, saliva, duodenal juice and urine were examined for chlorides, pH, alk. reserve and NH_4 before and after the administration of small doses of soda and acid phosphate (10 cc. of 10% solns. of NaHCO_3 and NaH_2PO_4). The results varied. In some cases duodenal juice showed an increased alkalinity. Gastric juice and saliva failed to reveal any changes. Urine showed considerable variation in either direction. The authors conclude that the gastrointestinal tract is a stable receptor in which mild interference fails to produce any deviations. N. N. Menshikh</p>			
<p>ASB-5LA METALLURGICAL LITERATURE CLASSIFICATION</p>			
<p>13301 13302 13303 13304 13305 13306 13307 13308 13309 13310 13311 13312 13313 13314 13315 13316 13317 13318 13319 13320 13321 13322 13323 13324 13325 13326 13327 13328 13329 13330 13331 13332 13333 13334 13335 13336 13337 13338 13339 13340 13341 13342 13343 13344 13345 13346 13347 13348 13349 13350 13351 13352 13353 13354 13355 13356 13357 13358 13359 13360 13361 13362 13363 13364 13365 13366 13367 13368 13369 13370 13371 13372 13373 13374 13375 13376 13377 13378 13379 13380 13381 13382 13383 13384 13385 13386 13387 13388 13389 13390 13391 13392 13393 13394 13395 13396 13397 13398 13399 13400 13401 13402 13403 13404 13405 13406 13407 13408 13409 13410 13411 13412 13413 13414 13415 13416 13417 13418 13419 13420 13421 13422 13423 13424 13425 13426 13427 13428 13429 13430 13431 13432 13433 13434 13435 13436 13437 13438 13439 13440 13441 13442 13443 13444 13445 13446 13447 13448 13449 13450 13451 13452 13453 13454 13455 13456 13457 13458 13459 13460 13461 13462 13463 13464 13465 13466 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<p>The role of the gastrointestinal tract in regulating the acid-alkaline equilibrium of the organism. V. V. Voznova and A. V. Drobnitskaya. <i>Nervno-Humoralnaya Regulyatsiya v Deyatel'nosti Shtomakhovogo Apparata Cheloveka</i> (Neurohumoral Regulation of the Digestive Tract) 1933, II, 129-34 (in English 134-5).—Gastric juice, saliva, duodenal juice and urine were examined for chlorides, pH, alk. reserve and pH_2 before and after the administration of small doses of soda and acid phosphate (10 cc. of 10% solns. of NaHCO_3 and NaH_2PO_4). The results varied. In some cases duodenal juice showed an increased alkalinity. Gastric juice and saliva failed to reveal any changes. Urine showed considerable variation in either direction. The authors conclude that the gastrointestinal tract is a stable receptor in which mild interference fails to produce any deviations. N. N. Menshik</p>			
ASH-S-4 METALLURGICAL LITERATURE CLASSIFICATION		E-577 25-7-57	
SIGNATURE		EDITION	
AUTHOR		EDITOR	
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PUBLICATION		COUNTRY	
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VOLUME		NUMBER	
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SERIES		SUBSERIES	
LANGUAGE		TRANSLATION	
ABSTRACT		SUMMARY	
NOTES		REMARKS	

PEYZULAYEV, SH.I.; KARABASH, A.G.; KRAUZ, L.S.; KOSTAREVA, F.A.;
SMIRNOVA-AVRINA, H.I.; BABINA, F.L.; KONDRAT'YEVA, L.I.; VORONOVA,
Ye.F.; MESHKOVA, V.M.

Spectral method for the determination of trace impurities. Zav. lab.
24 no. 6:723-731 '58. (MIRA 11:7)
(Spectrum analysis)

VORONOVA, Ye. F.

24(7)

PHASE I BOOK EXPLANATION

80V/100

Materials

Materials I Vsesoyuznogo soveshchaniya po spektroskopii, 1956.
t. II: Atomnaya spektroskopiya (Materials of the 10th All-Union
Conference on Spectroscopy, 1956. Vol 2: Atomic Spectroscopy)
/Dov. Ind-vo L'vovskogo univ., 1958. 568 p. (Series: Iti:
Fizicheskii sbornik, v. 9(9)). 3,000 copies printed.

Additional Sponsoring Agency: Akademiya nauk SSSR. Komissiya po
spektroskopii.

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Candidate of Physical and Mathematical Sciences; L.K. Klimovskiy,
(Deceased), Doctor of Physical and Mathematical Sciences; V.S. Milyandukh
Glimberman, Doctor of Physical and Mathematical Sciences;
M.I. S.L. Gazar, Tech. M.; T.V. Saranyuk.

FOREWORD: This book is intended for scientists and researchers in
the field of spectroscopy, as well as for technical personnel
using spectrum analysis in various industries.

COMMENT: This volume contains 177 scientific and technical studies
of atomic spectroscopy presented at the 10th All-Union Confer-
ence on Spectroscopy in 1956. The studies were carried out by
members of scientific and technical institutions and include
extensive bibliographies of Soviet and other sources. The
studies cover many phases of spectroscopy: spectra of rare earths,
electromagnetic radiation, physical and chemical methods for controlling
crystal production, physical and chemical methods for controlling
spectroscopy, and the absorption technology of gas discharges,
analysis of metals and alloys, spectral determination of the
hydrogen content of metals by means of isotopes, tables, and
atlases of spectral lines, spark spectrographic analysis,
statistical study of variation in the parameters of calibration
curves, determination of traces of metals, spectrum analysis in
metallurgy, thermochemistry in metallurgy, and principles and
practice of spectrochemical analysis.

Card 2/31

Materials of the 10th All-Union Conference (Cont.)

80V/100

Korabash, A.G., Sh.I. Farkulayev, R.L. Gilyuzova, M.P.
Sobalova, M.I. Salimova-Averina, T.M. Zaslavskaya, L.S.
Kuznetsov, G.G. Kuznetsov, L.S. Kuznetsov, L.I. Shadrina,
V.M. Liptova, S.K. Jazanova, L.I. Pogacheva, M. Litavova,
Mashova, Ye.F. Voronova, P.D. Orbachov, P. Litavova,
M.S. Los'areva, A.L. Ygoratayev, and R.M. Kuznetsova.
Abstracts of Spectrochemical Analysis of Pure Metal for
Reprints

556

AVAILABLE: Library of Congress

TR/40
7-1-59

Card 31/31

VORONOVA, YE. G.

Defended his Dissertation for Candidate of Technical Sciences in the Moscow
Chemicotechnological Institute, Moscow, 1953

Dissertation: "Application of Dilatometry to the Study of Polymorphism in Fats
and for the Appraisal of Their Properties in Industrial Production"

SO: Referativnyy Zhurnal Khimiya, No. 1, Oct. 1953, (W/29355, 26 Apr 54)

SKRYNNIKOVA, G.N.; MATVEYEVA, N.I.; SMETANIN, L.L.; VORONOVA, Ye.I.

Testing the new design of a high-frequency titrimeter. Trudy
VNIIT no.13:213-218 '64. (MIRA 18:2)

GOVOROVA, L.M.; SKRYNNIKOVA, G.N.; VORONOVA, Ye.I.

Using 30% hydrochloric acid for the colorimetric determination of phenols with vanillin in the tar waters of shale-refining combines. Trudy VNIIT no.13:227-231 '64.

(MIRA 18:2)

VORONOVA, Ye. P., Cand Agr Sci -- (diss) "Soils of flood-plains in the Podgorenskiy rayon of the Voronezh oblast, their genesis, composition, properties, and basic approaches of agricultural utilization and employment." Voronezh, 1960. 24 pp; (Ministry of Agriculture RSFSR, Voronezh Agricultural Inst); 150 copies; price not given; (KL, 27-60, 156)

VORONOVA, Ye.P.

Soil formation processes and classification of alluvial
soils in the steppe zone of the Central Black Earth
Region. Pochvovedenie no.7:43-52 '60. (MIRA 13:7)

1. Vserossiyskiy nauchno-issledovatel'skiy institut
sakharnoy svekly i sakhara.
(Central Black Earth Region--Alluvial lands)
(Soil formation)

USSR/Soil Science - Genesis and Geography of Soils.

J

Abs Jour : Ref Zhur Biol., No 22, 1958, 99986

Author : Voronova, Ye.P.

Inst : Voronezh Agricultural Institute

Title : Soils of the Bottom Lands of the Ribers Dry Rossosh' and Popov's Ravine

Orig Pub : Zap. Voronezhsk. s.-kh. in-ta, 1957, 27, No 2, 335-338

Abstract : The bottom lands of the rivers Dry Rossosh' and Popov's Ravine in the territory of Voronezhskaya Oblast' are situated in deep trough-shaped valleys surrounded by high watersheds, which had been put together by limestone. Along the entire extension of the valleys there are no clearly expressed river beds and permanent water currents. Here are distributed water-meadow, muddy-marshy, sod-meadow and sod-gleyey soils. Some

Card 1/2

- 17 -

L 31189-66 EWT(1)/T JK

ACC NR: AP6022596

SOURCE CODE: UR/0016/66/000/003/0134/0138

AUTHOR: Voronova, Z. A.ORG: Institute of Epidemiology and Microbiology im. Gamaleya, AMN SSSR (Institut epidemiologii i mikrobiologii AN SSSR)TITLE: Order in which gamma-1 and gamma-2 antibodies are formed after the first and subsequent actions of antigen. I. Antibody distribution in serum protein fractions after the first and subsequent inoculations of rabbits with Rickettsia prowazekii

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 3, 1966, 134-138

TOPIC TAGS: rabbit, antibody, antigen, protein, blood serum, gamma globulin, immunology, electrophoresis, rickettsial disease

ABSTRACT: The earliest antibodies were determined in rabbits 7-21 days after initial infection with R. prowazekii mainly in the Gamma-1-globulins, then in the Gamma-2-globulins. Antibodies in the sera of convalescent and reinfected animals were found almost exclusively in the gamma-2-fraction. The maximum hemagglutinin titer was observed in the gamma-1-fraction; the lowest complement-fixing antibody titer, in the gamma-2-fraction. Agglutinins to Proteus OX₁₉ after the initial inoculations were generally found only in the gamma-1-globulins, but could not be determined at all after the second inoculation. The author concludes that the method of immunoelectrophoresis with soluble antigen from R. prowazekii is valuable in serological diagnosis of the primary and secondary immunological responses. Orig. art. has: 2 figures.

[JFRS]

SUB CODE: 06 / SUBM DATE: 19Mar65 / ORIG REF: 003 / OTH REF: 009
Card: 1/1 cc UDC: 616.981.711-022.1-022.9-07:616.153.98-097.5-074

VORONOVA, Z.A.

Preparation of type-specific precipitating sera for the
diagnosis of *Clostridium perfringens*. Zhur. mikrobiol.
epid. i immun. 40 no.5:126-128 My '63. (MIRA 17:6)

SHEVELEV, V.M.; VORONOVA, Z.A.; REZEPOV, F.F.

Antigenic specificity of Clostridium botulinum types, C, D, E.
Zhur. mikrobiol., epid. i immun. 41 no.3:65-69 Mr '64. (MIRA 17:11)

VORONOVA, Z.A.

Determination of the antigenic properties of botulism toxins and
anatoxins types A and B with the aid of the ring precipitation
reaction. Zhur. mikrobiol. epid. i immun. 31 no. 4:94-99 Ap '60.
(MIRA 13:10)

(TOXINS AND ANTITOXINS) (BOTULISM)

VOROB'YEV, A.A.; VASIL'YEV, N.N.; SHEVELEV, V.M.; VORONOVA, Z.A.; PETROVA,
Ye.K.; BAZHENOVA, G.A.; ANDROSHCHUK, S.M.

Study of botulin anatoxins. Report No.6: Type D botulin anatoxin.
Zhur. mikrobiol., epid. i immun. 40 no.9:87-92 S'63.

(MIRA 17:5)

ACCESSION NR: AP4025078

S/0016/64/000/003/0065/0069

AUTHOR: Shevelev, V. M.; Voronova, Z. A.; Rezapov, F. F.

TITLE: Antigen specificity of Cl. botulinum types C, D, and E

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 3, 1964, 65-69

TOPIC TAGS: botulism, Cl. botulinum types C, D, and E, botulinus toxin, botulinus heterogeneous toxin, antigen specificity, antigen affinity, neutralization reaction, precipitinogen

ABSTRACT: The degree of antigen affinity between Cl. botulinum types C, D, and E was determined by neutralization reaction of their toxins, passive and active immunization, and precipitation reaction with bacterial antigens. For neutralization reactions, antitoxin serums types C, D, and E were mixed with various quantities of homo- and heterogeneous toxins, kept at room temperature for an hour, and then were injected intravenously into white mice. Death rate and clinical symptoms during the following four days served as indices. For passive immunization antitoxin serums types C, D, and E were injected intravenously into white mice and an hour later homo- and

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ACCESSION NR: AP4025078

heterogeneous toxins were injected intraperitoneally. To find possible cross immunity, actively immunized animals received single subcutaneous immunization with concentrated botulinus antitoxins types C, D, and E sorbed in aluminum oxide hydrate and immunity strength was tested. For cross precipitation reactions, boiled extracts of microbe cells common to 8 strains of Cl. botulinum C, D, and E were used as antigens. Findings show that botulinus toxins types C, D, and E have a certain antigenic affinity. Large doses of antitoxin for a given type are capable of neutralizing small doses of heterogeneous toxin. Active or passive immunization against botulinus toxins C, D, and E produces insignificant resistance to other type toxins. Cl. botulinum type D strains contain bacterial antigens (precipitinogens) common to antigens found in C and E type strains. Antigen specificity of Cl. botulinum types C, D, and E is confirmed by these data with only an insignificant affinity found between types C, D, and E. Orig. art. has: 4 tables.

ASSOCIATION: None

SUBMITTED: 18Jan62

ENCL: 00

SUB CODE: LS;

NR REF SOV: 001

OTHER: 004

Card 2/2

SOV/16-60-4-23/47

17 (2,12)

AUTHOR:

Voronova, Z.A.

TITLE:

Determining the Antigenic Properties of Types A and B Botulinum Toxins and Toxoids by the Ring Precipitation Test

PERIODICAL:

Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1960, Nr 4, pp 94 - 99 (USSR)

ABSTRACT:

The aim of the work was to find a method of preparing sera which could be used in the ring precipitation test with crude or concentrated botulinum toxoids. Sera were obtained by immunizing rabbits with young bacterial cells of a heterologous strain of Clostridium botulinum types A and B. These sera could be used in the ring test for rapid determination (within 1 hr) of the antigenic properties of types A and B Cl. botulinum toxins and toxoids. Parallel tests were made of 240 batches of crude and 76 batches of concentrated type A and B Cl. botulinum toxoids by the ring test and by the Becker-Krauss-Löwenstein method. Full coincidence of the results from the two tests was obtained for 88 and 82% of the batches respectively. With the other batches the divergence in the results amounted to 6 - 10%. The ring precipitation test accurately reflects the antigenic properties of Cl. botulinum toxins and

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SOV/16-60-4-23/47

Determining the Antigenic Properties of Types A and B Botulinum Toxins and Toxoids by the Ring Precipitation Test

may be used as a method of selecting them for the preparation of toxoids. The degree of toxicity of the A and B toxins, determined by titration on white mice, is not always sufficient for an appraisal of their antigenic properties, especially where the toxin has been activated by pancreatin and calcium chloride. The ring test is therefore recommended as a substitute for titration on white mice. There are 5 tables, 1 graph and 5 Soviet references. ✓

SUBMITTED: December 9, 1958

Card 2/2

VORONOVICH, Andrey Arkhipovich; BACHILO, I., red.; ZAKHAROVA, G., mlad.
red.; SHIKIN, S., tekhn. red.

[Lenin's agrarian program and how it has been carried out in the
U.S.S.R.] Leninskaia agrarnaia programma i ee osushchestvlenie v
SSSR. Moskva, Izd-vo sotsial'no-ekon. lit-ry, 1961. 554 p.
(MIRA 14:9)

(Agricultural policy)

VORONOVICH, B.A. (Moskva)

Natural and artificial surroundings. Priroda 52 no. 3:40-45 '63.
(MIRA 16:4)

(Science)

VORONOVICH, D. Ya

"Establishment of Effective Methods of Pinching a Grapevine During
the Multibranched Formation of the Cluster." Cand Agr Sci, Georgian
Agricultural Inst, 12 Oct 54. (ZV, 23 Sep 54)

SO: Sum 432, 29 Mar 55

VORONOVICH, I.R.

Problem of the morphology of false joints. Zdrav. Belor. 5 no.9:
33-37 S '59. (MIRA 12:12)

1. Iz Nauchno-issledovatel'skogo instituta travmatologii i ortopedii
Ministerstva zdravookhraneniya BSSR (direktor - prof. R.M. Minina,
nauchnyy rukovoditel' - prof. B.N. TSypkin).
(PSEUDOARTHROSIS)

VORONOVICH, I. R., Cand Med Sci -- (diss) "Problems in the morphology and treatment of pseudo-joints." Minsk, 1959. 19 pp; (Minsk State Medical Inst); 200 copies; price not given; (KL, 17-60, 168)

BUDYAK, N.F.; VORONOVICH, S.A.; KRUPENYA, S.I.

Neutral tar lubricant from the power-engineering refinement
of lignite. Khim. i tekhn. topl i masel 9 no.8:37-41 Ag '64.
(MIRA 17:10)

1. Podmoskovnyy nauchno-issledovatel'skiy i proyektno-
konstruktorskiy ugol'nyy institut.

SERGIYEVSKIY, V.S., VORONOVA, N.V.

Experimental myocardial infarct and its excision. Report No.2
[with summary in English]. Eksp. Khir. 3 no.5:29-34 S-0 '58
(MIRA 11:11)

1. Iz Il'inskoy rayonnoy bol'nitsy (glavnyy vrach A.I. Ivanov)
Velikolukskoy oblasti.
(MYOCARDIAL INFARCT. exper.
excis. in animals (Rus))

1. YORONOV, P., Eng.
2. USSR (600)
4. Milling Machines
7. Adjustment and regulation of machine tools for grinding crank shafts.
MTS 13, No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

1. VORONOV, P.
2. USSR (600)
4. Grinding and Polishing
7. Adjustment and regulation of machine tools for grinding crank shafts, MTS 13 no. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953. Unclassified.

VORONOV, P.

Ensilage

Digging silage trenches by tractor power. Eng. MTS 12 No. 8, 1952.

Monthly List of Russian Accessions, Library of Congress November 1952. UNCLASSIFIED

VORONOV, P., Eng.

Tractors

Digging silage trenches by tractor power. MTS 12 no. 8, 1952

Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED.

VORONOV, P.

Drilling and Boring Machinery

Universal machine for boring bearings, MTS 11, No. 12, 1951.

Monthly List of Russian Accessions, Library of Congress, May 1952, "Unclassified."

VORONOV, P., Eng.

Automobiles - Motors

Checking the bearing surface for crank bearing bushings in the blocks of automobile and tractor engines. MTS 13, No. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

VORONOV, P., Eng.

Tractors - Motors

Repair of engine-block heads. MTS 13, No. 2, 1953.

Monthly List of Russian Accessions, Library of Congress
June 1953. UNCL.

VORONOV, P., Eng.

Tractors - Motors

Checking the bearing surface for crank bearing bushings in the blocks of automobile and tractor engines. MTS 13, No. 3, 1953.

Monthly List of Russian Accessions, Library of Congress
June 1953. UNCL.

IZHUKOVSKIY, N.N., professor, doktor tekhnicheskikh nauk; BLIZNYAK, Ye.V., professor; GUBIN, F.F., professor; ABRAMOV, N.N. professor ROZANOV, N.P., VORONOV, P.A., BORODIN, P.V., POSEDOV, M.A. YUREVICH, D.P., PERSON, N.N., tekhnicheskiiy redaktor.

[Introduction to hydraulic engineering] Vvedenie v gidrotekhniku. Moskva, Gos.izd-vo lit-ry po stroit. i arkhitekt. 1955. 301 p.
(Hydraulic engineering) (MLRA 8;8)

K-2

USSR/Forestry - Forest Biology and Typology.

Abs Jour : Ref Zhur - Biol., No 5, 1958, 20106

Author : Voronova, V.S.

Inst :

Title : The Effect of a Change in the Plant Blanket on the Natural
Renewal of Forest Clearings.

Orig Pub : Tr. Kareli'sk. fil. AN SSSR, 1957, vyp. 7, 110-126.

Abstract : Experiments made in the Petrozavodsk Forest Grounds by the
Forestry Division of the Karelian affiliate of the Academy
of Sciences USSR in 1952-1954 have demonstrated that grasses
(Calamagrostis wood grasses and crinkled hair-grass)
which take an insignificant part in the grass stand by the
second to third year assume a dominant position in glades
of all habitats with the exception of those which are ex-
cessively moistened. The predominance of grasses is main-
tained in even older clearings. The amount and nature of
conifers renewed after felling is determined to a

Card 1/2

- 25 -

VORONOVA, V.S.

History of the study of forest vegetation in Karelia. Izv. Kar. 1
Kol'. fil. AN SSSR no.2:135-140 '58. (MIRA 11:9)

1. Institut lesa Karel'skogo filiala AN SSSR.
(Karelia--Forestry research)

VORONOVA-SHABANOVA, M. S., Doc Med Sci (diss) -- "Treating children suffering from tuberculous meningitis (Clinical-experimental investigation)". Moscow, 1959. 22 pp (Min Health RSFSR, Saratov State Med Inst), 300 copies (KL, No 24, 1959, 147)

KARABASH, A.G.; PEYZULAYEV, Sh.I.; SLYUSAREVA, R.L.; SOTNIKOVA, N.P.;
SHIRNOVA-AVERINA, N.I.; SAMJOHOVA, Z.H.; KRAUZ, L.S.; MOROZOVA, G.G.;
ROMANOVICH, L.S.; SMIRENKINA, I.I.; LIPANOVA, V.M.; SALANOVA, S.K.;
PUGACHEVA, L.I.; USACHEVA, V.P.; VORONOVA, Ye.F.; GORBACHEV, P.D.;
KOSTAREVA, F.A.; KOSTAREVA, N.T.; YELOVA'FSKAYA, A.I.; KUZNETSOVA, N.N.

Spectrochemical analysis of pure metals for impurities. Fiz.
sbor. no.4:556-562 '58. (MIRA 12:5)

(Spectrochemistry)

22(1)

SOV/3-59-3-16/48

AUTHORS: Abramov, P.N. and Voronovich, A.A., Candidates of
Historical Sciences, Docents

TITLE: We Continue the Discussion on Seminar Methods (Pro-
dolzhayem razgovor o metodike seminara)

PERIODICAL: Vestnik vysshey shkoly, 1959, Nr 3, pp 31-34 (USSR)

ABSTRACT: The authors describe a seminar conducted by the Chair
for the History of the CPSU of the Moscow Aeronautical
Institute. Its theme was "The 3rd Party Congress and
V.I. Lenin's Book 'Two Tactics of Social-Democracy in
the Democratic Revolution'". They comment in detail
on the procedure, the way the seminar was prepared,
and draw certain conclusions. The joint presence of
the Chair members at the seminar, and the subsequent
exchange of opinions, has polished the instructors'
points of view and has helped them to formulate more
precisely methodological principles. The authors
consider that the success of a seminar does not de-
pend solely on the pedagogical and methodical skill

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SOV/3-59-3-16/48

We Continue the Discussion on Seminar Methods

of the instructor, but also on his scientific qualification. It is very important that the instructor bring forth material from his own scientific work. The authors emphasize the necessity of a close, organic contact between lectures and seminars.

ASSOCIATION: Moskovskiy aviatsionnyy institut imeni S. Ordzhonikidze (Moscow Aeronautical Institute imeni S. Ordzhonikidze)

Card 2/2

VORONOVICH, I.I.

Rubnovy-galerkin method in the non linear theory of vibrations of slightly raked shells. Dokl. AN SSSR 110 no.5:723-726 O '56.

(MIRA 10:1)

1. Rostovskiy gosudarstvennyy universitet imeni V.M. Molotova. Predstavleno akademikom S.L. Sobolevym.

(Functional equations) (Elastic plates and shells)

VORONOVICH, I. V. and Gorlenko M. V.

Phytopathic Bacteria and Insect Vectors, (from Bibliography of Soviet Publications
in Plant Pathology and Closely Related Fields)

Uspekhi Sovremenoy Biologii , pp 458-463

VORONOVICH, N.

[All-seeing eye; from life in the Russian Army] Vsevidashchee oko; iz byta russkoi armii. Niu York, 1951. 75 p. (MLRA 8:3)
(Russia--Army--History)

VORONOVICH, N.D., veteinarnyy vrach (Mioroskiy rayon, Polotskoy oblasti)

~~_____~~
An avens therapy for babesiasis in cat+le. Veterinariia 30 no.6:
34-35 Je '53. (MLRA 6:5)

VORONOVICH, N. D.
VORONOVICH, N. D.

Utilization of Riparian (littoral) Aves for Treatment of Babesiasis in

Cattle.

SO: Vet.; Vol. 30; No. 6; 34; June 1953, Unclassified.
Trans. #121 by L. Lulich
Veterinarian, Miorskiy Rayon, Polotsk Oblast.

PLOTKIN, E.P.; VORONOVICH, N.F.

Significance of hydrotubage in the diagnosis and treatment of female sterility. Zdrav. Bel. 9 no.7:15-17 J1'63 (MIRA 17:4)

1. Iz Pinskogo gorodskogo rodil'nogo doma (glavnyy vrach rodil'nogo doma - zasluzhennyy vrach Belorusskoy respubliky V.M. Vorozheykina).

VORONOVICH, N.I.

KUSOV, A.B.; VORONOVICH, N.I.

Hysteresis characteristics of rubber. Kauch. i rez. 17 no.2:18-22
F '58. (MIRA 11:4)

1.Leningradskiy tekhnologicheskii institut im. Lensoveta.
(Hysteresis) (Rubber--Testing)

SOV/124-58-8-9421

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 8, p 145 (USSR)

AUTHORS: Kusov, A.B., Voronovich, N.I.

TITLE: The Effect of Swelling of Rubber on its Physical and Mechanical Properties (Vliyaniye nabukhaniya na fiziko-mekhanicheskiye pokazateli reziny)

PERIODICAL: Tr. Leningr. tekhnol. in-ta im. Lensovet, 1957, Nr 42, pp 47-54

ABSTRACT: The authors have made a study of the effect had on the behavior of the stress-elongation curves of different types of rubber by the various degrees of swelling (up to 70-80%) which the specimens that they examined had undergone. The curves for the swollen specimens behaved in general very much the same as did those for the specimens that had not swollen, though the modulus of extensibility and rupture strength of the swollen specimens were lower.

From the résumé

Card 1/1

VORONOVICH, N. I.

AUTHORS:

TITLE:

PERIODICAL:

ABSTRACT:

Kusov, A. B. and Voronovich, N. I.
Some Characteristics of the Hysteresis of Rubbers.
(Nekotoryye osobennosti gisteretizatsii reziny.).
Kachuk 1 Rezina, 1958, Nr. 2, pp. 18 - 22.

62B-2-4/8

The hysteresis of rubbers, structure changes of rubbers during expansion-deformation and properties of various rubbers were investigated. Natural rubber, Na-outadiene, chloroprene, nitrile, 1,3-butadiene-styrene and butyl rubber vulcanisates, with and without the addition of various fillers, were tested. The mixtures were vulcanised for a period of 10 - 120 minutes. The rate of expansion (or contraction) of the samples was 100 mm/minute. The elongations = 200 - 900%. Characteristic curves for various degrees of expansion of the samples are shown in Fig. 1. During elongation of the samples the rate of expansion at the expense of the non-chemical bonds are similar phenomenon is observed during contraction. The mechanism of expansion of the samples was 100 mm/minute. The break-up process of the bonds - between the macro-molecules of the rubber, and between the rubber and the particles of admixtures. The degree of disruption of the bonds increases with increasing purity of the mixture and increasing deformation. G. M. Bartenev and L. A. Vishnitskaya investigated the properties of rubbers

APPROVED FOR RELEASE: 03/14/2001

CIA

Card 1/3

Some Characteristics of the Hysteresis of Rubbers. 62B-2-4/8

which crystallised during elongation and gave a number of equilibrium constants of contraction (Fig.2, curves 1 - 9). The authors found that these curves could be superposed and represented by curve 10. They concluded that all rubbers, independent of their structure, contract equally. The various numerical values of elongation are explained by the fact that each sample is subjected to internal stresses and corresponding deformation. After defining the hysteresis losses for various rubbers the authors also found that the hysteresis losses of crystallising rubbers (natural chloroprene and butyl rubber) differs to a large extent from the values for non-crystallising rubbers (sodium-1,3-butadiene, 1,3-butadiene-styrene and nitrile rubber). Typical curves for crystallising (Fig.3A) and non-crystallising rubbers (Fig.3B) are given. The ratio of the hysteresis losses and elongation of various rubber is shown graphically (Fig.4). The maximum value of the break strength was found to be 250 - 450 kg/cm² which corresponds to an elongation of 1200 - 1500%, depending on the type of tested rubber. It can be assumed that the structure

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Some Characteristics of the Hysteresis of Rubbers. 62B-2-4/8

changes of the rubbers lead to an increasing degree of rupture of the inter-molecular adsorption and other bonds. The process of internal destruction or rupture of the bonds can proceed at increasing load as well as at constant load; the larger the load the shorter the time required for the breaking-up of the vulcanisate. These results are similar to those obtained by S. M. Zhurkov and B. M. Marzullayev on the time dependence of the strengths of solid bodies. There are 4 Figures and 5 References: 3 Russian, 2 English.

ASSOCIATION: Leningrad Technological Institute in Leningrad.
(Leningradskiy tekhnologicheskii institut im. Lensovetu).

AVAILABLE. Library of Congress.

Card 3/3

1. Vulcanizates-Test results
2. Synthetic rubber-Thermodynamic properties
3. Synthetic rubber-properties
4. Rubber-Test results
5. Rubber-Properties
6. Rubber-Thermodynamic properties

BUDYAK, N.P. (Novomoskovsk); Primala uchastiy: VORONOVICH, S.A.

Instability of tars resulting from the high-speed thermal
decomposition of solid fuels. Izv. AN SSSR. Otd. tekhn.
nauk. Energ. i transp. no.3:386-389 My-Je '63.
(MIRA 16:8)

VORONOVICH, Ye.

Potentialities can be found everywhere. Grashd. av. 21 no.6:26
(MIRA 17:8)
Je '64.

1. Nachal'nik planovogo otdela Upravleniya aviatsii spetsial'nogo
primeneniya i vozdushnykh silyamok Grazhdanskogo vozdušnogo flota.

VORONOVITSKIY, I. N.

STROYEV, V. S., inzhener; VORONOVITSKIY, I. N.

Effect of metallurgical factors on the structure and mechanical properties of type 18-8 metal in built-up welding. Svar. proizv. (MLRA 10:9) no. 11:15-19 N '56.

Isk. Opytno-svarochnyy zavod Tsentral'nogo nauchno-issledovatel'skogo instituta Ministerstva putey soobshcheniya. (Steel, Stainless--Metallography) (Electric welding)

VORONOVICH, I.R.

Treatment of false joints. Zdrav. Belor. 5 no.11:26-30 N '59.
(MIRA 13:3)

1. Nauchno-issledovatel'skiy institut travmatologii i ortopedii
(direktor - prof. R.M. Minina, na uchnyy rukovoditel' - prof. B.N.
TSypkin).

(PSEUDARTHROSIS)

VORONKOVSKAYA, G.N., kand.med.nauk

Changes in the heart valves and myocardium in long-term septic endocarditis and rheumatic fever. Vrach.delo no.10:1097 0 '59. (MIRA 13:2)

1. Kafedra patologicheskoy anatomii (zavoduyushchiy - prof. A.M. Antonov) Saratovskogo meditsinskogo instituta.
(ENDOCARDITIS) (RHEUMATIC FEVER)

GORDIYEVSKIY, A.V.; RENARD, E.V.; VORONOVSKAYA, M.N.

Synthesis of an electron-exchange polymer. Plast.massy no.3:20-23
'61. (MIRA 14:3)
(Polymers) (Ion exchange)

5.5760
26.1610

2209, 1273, 1208

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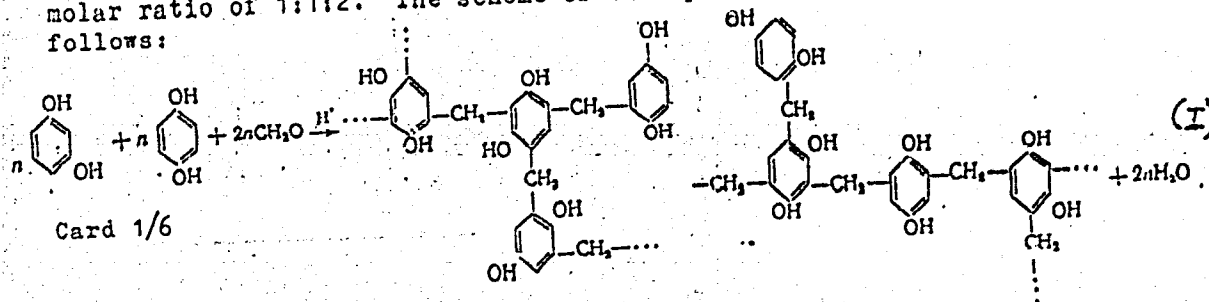
S/191/61/000/003/004/015
B124/B203

AUTHORS: Gordiyevskiy, A. V., Renard, E. V., Voronovskaya, M. N.

TITLE: Synthesis of an electron-exchanging polymer

PERIODICAL: Plasticheskiye massy, no. 3, 1961, 20-23

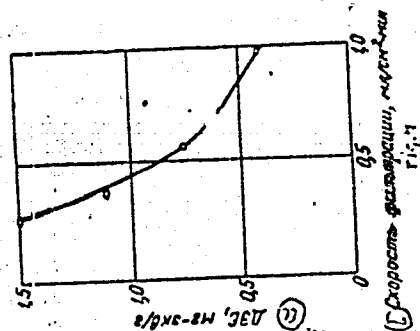
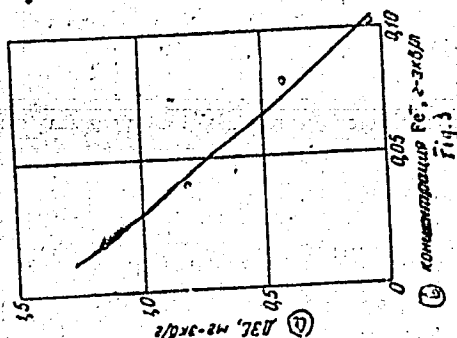
TEXT: It has been attempted during the last ten years to synthesize "electron exchangers", i.e., exchanging resins entering redox reactions and permitting sorption at the same time, the selectivity of processes being guaranteed by the constant redox potential of the polymer. The authors defined the production methods and studied the physicochemical properties of the resorcin hydroquinone formaldehyde polycondensate with a molar ratio of 1:1:2. The scheme of this process can be represented as follows:



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The following data are given for the chemical stability of the electron-exchanging polymer to a number of agents:

Solvent	Loss in weight, %	Solvent	Loss in weight, %
methanol	20.45	nitric acid, 3.5N	4.2
ethanol	17.4	hydrochloric acid	
acetone	19.7	3.5 N	0.2
benzene	2.5	sulfuric acid, 6.0 N	1.5
hydrogenated kerosene	2.0	soda lye, 2.5 N	6.1

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After repeated treatment with the same solvent, no change in weight occurs after the first treatment, since the change in weight is mainly due to the dissolution of the low-molecular components; besides, the redox capacity increases due to increased porosity after the treatment. Therefore, polymers were treated with 1.5 N HNO₃ and methanol in further tests. The apparent redox potential of the polymer was potentiometrically determined with + 0.68 v. The principal physicochemical properties determined according to Ref. 23 (I. E. Apel'tsin et al.: Ionity i ikh primeneniye [Ionites and their application], Standartgiz, 1949) are: heat resistance 150°C, crushing 93.2%, abrasion 102.7%, bulk weight of the air-dry polymer 0.686 t/m², bulk weight of the moist polymer 0.588 t/m², swelling 11.66%. In reduction of iron, the electron-exchanging capacity after 7 cycles drops from 4.4 to 3.6 mg-equiv/g. The authors studied the effect of Fe³⁺-ion concentrations, H-ion concentration, and filtration rate on the dynamic electron-exchanging capacity (DEC) (Figs. 2-4). For the concentration constant of the redox reaction, they derived the relation $K = e^{\Delta E^0 \cdot nF/RT}$, where ΔE^0 is the difference between the standard redox potentials of the

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systems $\text{Fe}^{+3}/\text{Fe}^{+2}$ and the potentials resin-ox/resin-red (0.77 - 0.68 v), n is the number of electrons participating in the reaction (n=2), and F is the Faraday number. After introduction of the numerical data, K is found to be $10^{3.12}$. There are 4 figures and 23 references: 9 Soviet-bloc and 14 non-Soviet-bloc. The reference to the English-language publication reads as follows: H. J. Gregor, J.Am.Chem.Soc. 77, 3675 (1955).

Fig. 2. Dependence of the dynamic electron-exchanging capacity (DEC) of the polymer on the acidity of the solution (Fe-content 0.04 g-equiv/l, filtration rate

0.43 ml/cm²·min)

Legend: (a) DEC, mg-equiv/g, (b) acidity, g-equiv/l.

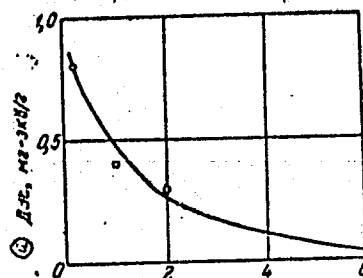


Fig. 2. Зависимость динамической емкости от кислотности раствора

Fig. 2

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Synthesis of an electron-....

Fig. 3. Dependence of the dynamic electron-exchanging capacity (DEC) of the polymer on the concentration of the reduced Fe ion (H_2SO_4 acidity 0.2 N, filtration rate 0.43 ml/cm³.min).

Legend: (a) DEC, mg-equiv/g, (b) concentration of Fe²⁺, g-equiv/l.

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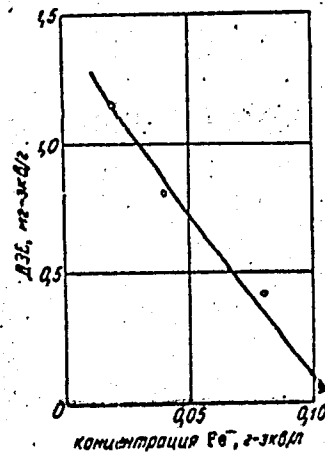


Fig. 3

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Synthesis of an electron-...

Fig. 4. Dependence of the dynamic electron-exchanging capacity (DEC) of the polymer on the filtration rate of the reduced solution (H_2SO_4 acidity 0.2 N, Fe-content 0.04 g-equiv/l)

Legend: (a) DEC, mg-equiv/g, (b) filtration rate, ml/cm²·min.

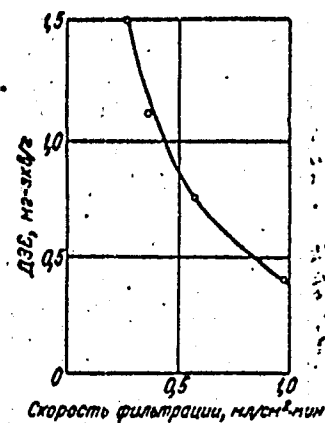


Fig. 4

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VORONOVSKAYA, YE. V.

Opredeleniye asimptoticheskogo vida priblizheniya funktsiy polinomami S.N. bernshteyna. DAN (a), (1932), 79-85.

So: Mathematics in the USSR, 1917-1947

edited by Kurosh, A.G.,

Markushevich, A.I.

Rashevshily, P.K.

Moscow-Leningrad, 1948

VORONOVSKAYA, E. V.

USSR/Mathematics

Card 1/1 Pub. 22 - 1/47

Authors : Voronovskaya, E. V.

Title : Application of the functional analysis to polynomials with the least deviation

Periodical : Dok. AN SSSR 99/1, 5-8, Nov 1, 1954

Abstract : A series of theorems is presented. They are intended to prove that the functional $F(f) = \int_0^1 f(t)dg(t)$ determined by a sequence of moments

$M_k = \int_0^1 t^k dg(t)$ ($k = 0, 1, 2, \dots$) can be used for finding the so-called "extremal" polynomials, which are expressed by "extremal" functions. The definition of an "extremal" function is given. Three USSR references (1893-1941).

Institution : Leningrad Electrotechnical Institute im. M. A. Bon-Bruévich

Presented by: Academician V. I. Smirnovym, Aug 16, 1954.

USSR, VORONOVSKAYA, E. V.
Mathematics - Extremal polynomials

Card 1/1 : Pub. 22 - 2/40

Authors : Voronovskaya, E. V.

Title : "Extremal" polynomials of the simplest functionals

Periodical : Dok. An SSSR 99/2, 193-196, Nov 11, 1954

Abstract : Applications of the method "extremal" functions (described in Dok. AN SSSR 99/1) for studying the least deviating polynomials of the simplest functionals are presented. A series of theorems is proved showing how one can study and construct an extremal polynomial with the help of the simplest functionals of the $[n, n, 1]$ class. Definition of an extremal function is given in the previous work mentioned above. Three USSR references (1928-1954).

Institution : Leningrad Electrotechnical Institute im. M. A. Bonch-Bruевич

Presented by: Academician V. I. Smirnov, June 7, 1954

VORONOVSKAYA, Ye. V.
 USSR/Mathematics - Differential equations

FD-1145

Card 1/1 : Pub. 85 - 14/15

Author : Voronovskaya, Ye. V. (Leningrad)

Title : Variation of Chaplygin's method for differential equations of the first order

Periodical : Prikl. mat. i mekh. 19, No 1, 121-126, Jan-Feb 1955

Abstract : The author notes that Chaplygin's method of approximate integration (S. A. Chaplygin, Novyy metod priblizhennogo integrirvaniya differentsial'nykh uravneniy, 1950) for all its great theoretical value is but little used in practice even for equations of the first order. The method is of interest first of all for the exceptional rapidity of convergence of the approximations $y_n(x)$ to the desired integral $y(x)$; however, the computations are so tremendous and become so rapidly complicated in the iteration process that in practice the representation of the integral in analytic form is difficult even for $n=2$. In the present note the author selects the linear surface such that the rapidity of convergence increases and the final quadrature is simplified. Two references (e.g. N. N. Luzin, 1932).

Institution : --

Submitted : August 4, 1954

VORONOVSKAYA, YE. V.

VORONOVSKAYA, Ye. V. - "Extremal Polynomials of Finite Functionals." Leningrad Order of Lenin State U imeni A. A. Zhdanov, Leningrad, 1955
(Dissertation for the Degree of Doctor of Physicomathematical Sciences)

SO: Knizhnaya letopis', No. 33, 1955, pp 85-87

VORONOVSKAYA, Ye.V.

Functional method applied to akhiezer polynomials. Dokl. AN SSSR
110 no. 5: 727-730 O '56. (MIRA 10:1)

1. Leningradskiy institut aviatsionnogo priborostroyeniya. Predstav-
leno akademikom V.I. Smyrnovym.
(Polynomials) (Functional equations)

VORONOVSKAYA, Ye. V.

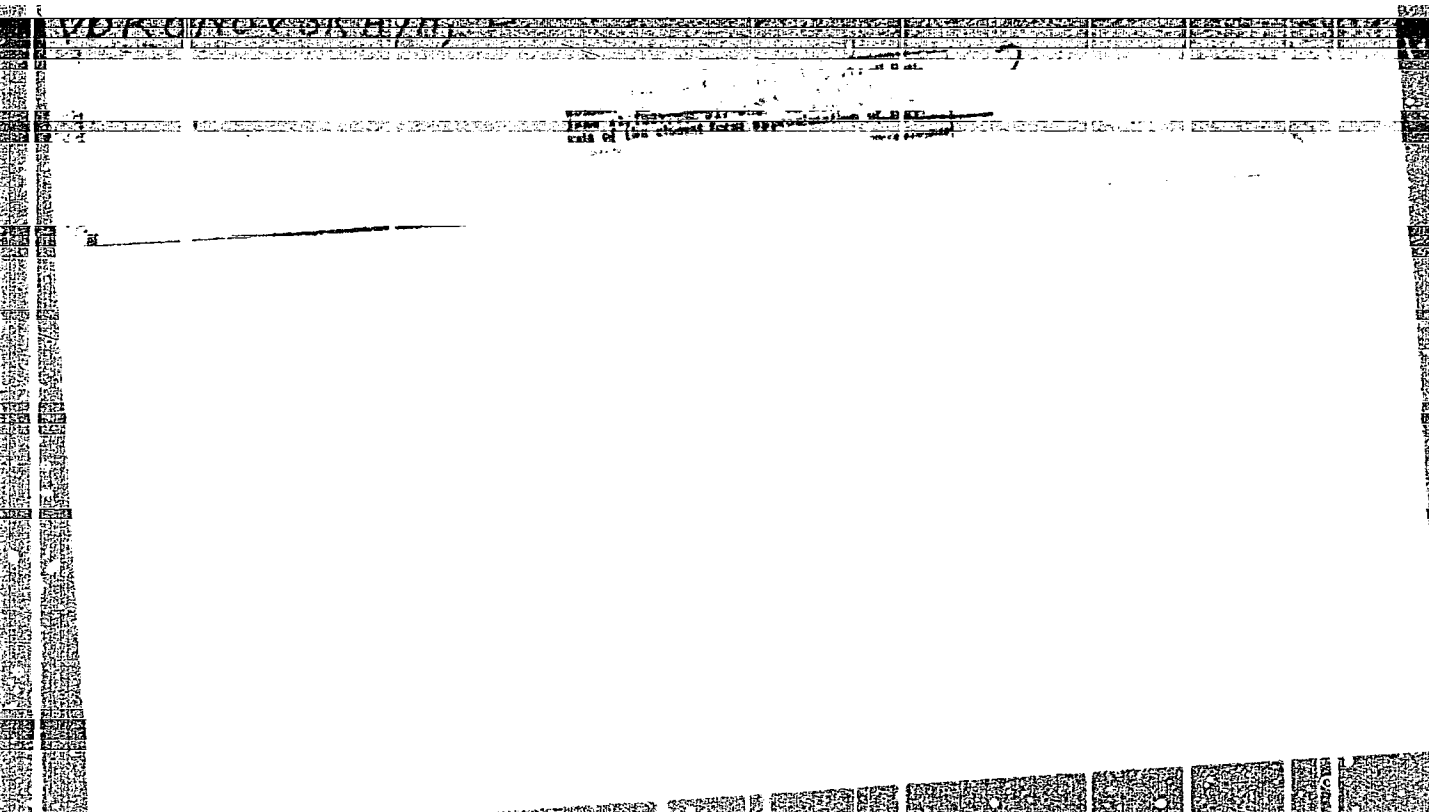
"The Functional Method Applied to Akhiezer Polynomials," by
Ye. V. Voronovskaya, Leningrad Institute of Aviation Instru-
ment Building, Doklady Akademii Nauk SSSR, Vol 110, No 5,
1956, pp 727-730

Using a previously derived method (Ye. V. Voronovskaya, "Experi-
mental Polynomials of Finite Functionals," Dissertation, Leningrad, 1955),
the author investigates polynomials of the passport $[n, n - 1, 0]$, and
identifies them with the class of polynomials obtained by N. I. Akhiezer
in one of his experimental problems (Izvestiya Fiziko-Matematicheskogo
Obshchestva pri Kazanskom Universitete, Series 3, 3, 1928). The author's
method results in the derivation of a system of differential equations,
the integrals of which are the coefficients of the previously cited poly-
nomials depending on two variable parameters.

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VORONOVSKAYA, E. V.

20-5-3/60

AUTHOR
TITLE

VORONOVSKAYA, E. V.

On the Closest Uniform Approximation of Polynomials -
(O ravnomerno-nailuchshem priblizhenii polinomov - Russian)
Doklady Akad.Nauk SSSR, 1957, Vol 114, Nr 5, pp 927 - 929 (U.S.S.R.)

PERIODICAL

ABSTRACT

The present paper investigates a special case of Chebyshev's theorems of the best approximation of a function which is steady in $[0,1]$ by means of polynomials with assumed power. Let it be assumed that $f(x) = P_n(x)$; with $m < n$ a $P_m(x)$ is searched for, for which $\max_{[0,1]} |P_n(x) - P_m(x)|$ has the least value L . If one puts $P_n(x) - P_m(x) = Y_n(x)$ the following formulation of the problem is obtained: Among the polynomials of the power n with the assumed $n-m$ highest coefficients that which deviates least in $[0,1]$ from zero is to be found. Also the deviation L itself is required. This problem can be completely solved if $Q_n(x)$ is a polynomial of the II. class, i.e. if the number of its nodes $s > n/2+1$ amounts to about $\max_{[0,1]} |Q_n| = 1$. For this the condition $m+2 > n/2+1$ is sufficient.

It is thus true that $m > n/2+1$. The characteristic properties of the polynomials of the II. class are then given. The existence of polynomials with any "pass" (i.e. with any power, any number of nodes, and any number of repetitions of the sign of the polynomial on the interval limits) is obtained by means of quite simple linear functionals. For these polynomials 6 theorems are given. From one of them there follows a method for the analytical construction of the polynomials of II. class as integrals of a system of ordinary differen-

Card 1/2

20-5-3/60

On the Closest Uniform Approximation of Polynomials.
tial equations.
(No illustrations).

ASSOCIATION Leningrad Institute for the Construction of Aeronautical Apparatus.
PRESENTED BY SOBOLEV S.L., Member of the Academy
SUBMITTED 27.12.1956
AVAILABLE Library of Congress.
Card 2/2

GORDIYEVSKIY, A.V.; FILIPPOV, E.L.; VORONOVSKAYA, H.N.

Use of ion exchange membranes in the calcium form as indicator electrodes. Trudy MKHTI no.47:184-188 '64.

Formation of protective films on the surface of cast iron.
Ibid.:189-192

Sand fused on iron castings and role of cast iron silicon in its formation. Ibid.:193-197 (MIRA 18:9)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001861010001-3

Unanovskaya E. V. On a modification of Espygin's

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001861010001-3"